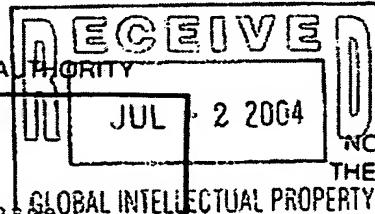


## PATENT COOPERATION TREATY

IPM (BED) / Marilyn

From the INTERNATIONAL SEARCHING AUTHORITY



PCT

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT  
OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference

PU4962WO

Date of mailing  
(day/month/year)

25/06/2004

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US 03/39644

International filing date  
(day/month/year)

12/12/2003

Applicant

SMITHKLINE BEECHAM CORPORATION

1.  The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2.  The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Further action(s): The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

→ and mailing address of the International Searching Authority

European Patent Office, P.O. 5618 Patentlaan 2  
NL-2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Federico Bonomelli

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between those Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 26 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

##### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

**The following examples illustrate the manner in which amendments must be explained in the accompanying letter:**

1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

**It must be in the language in which the international application is to be published.**

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PU4962WO	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 03/39644	International filing date (day/month/year) 12/12/2003	(Earliest) Priority Date (day/month/year) 13/12/2002
Applicant <b>SMITHKLINE BEECHAM CORPORATION</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
  - contained in the international application in written form.
  - filed together with the international application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

**PIPERIDINE DERIVATIVES AS CCR5 ANTAGONISTS**

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/39644

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/46 A61K31/445 C07D451/04 A61P31/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	WO 99/04794 A (OATES BRYAN ; FINKE PAUL E (US); MACCOSS MALCOLM (US); MERCK & CO INC) 4 February 1999 (1999-02-04) page 103, line 12 - line 17; claims 1,15,18,20 -----	1-61
Y	WO 00/38680 A (EDWARDS MARTIN PAUL ; PRICE DAVID ANTHONY (GB); PFIZER LTD (GB); WOOD) 6 July 2000 (2000-07-06) page 27, line 10; claims 1,2,5-20 -----	1-61
A	WO 02/079190 A (COOPER DAVID GWYN ; FORBES IAN THOMSON (GB); GRIBBLE ANDREW DERRICK (G) 10 October 2002 (2002-10-10) page 12, line 1 - line 3; claim 1; table 1 ----- -/-	1-61



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

4 June 2004

Date of mailing of the international search report

25.06.04

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patenttaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.

Authorized officer

Sevmoor

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/39644

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/25605 A (SPRINGER MARTIN S ; MACCOSS MALCOLM (US); MERCK & CO INC (US); MILLS S) 18 June 1998 (1998-06-18) page 61, line 5 – line 11; claims 1,11 page 16 – page 34 -----	1-61
X	US 5 340 822 A (EMMONDS-ALT XAVIER ET AL) 23 August 1994 (1994-08-23)  column 1, line 11 – line 24; claim 1; examples 22-24 -----	1-23, 25-28, 52-54, 59,60
X	BE 601 228 A (JANSSEN PHARMACEUTICA) 1961  page 2, line 23 – line 27; claim 1 page 9, line 10 – page 28, line 10 -----	1-23, 25-28,54
X	US 2 773 870 A (BILL ELPERN) 11 December 1956 (1956-12-11) column 1, line 20 – line 61 examples -----	1-23, 25-28,54
X	US 3 539 580 A (HERMANS HUBERT KAREL FRANS ET AL) 10 November 1970 (1970-11-10) column 1, line 13 – line 15; claims 1,5-7 table -----	1-23, 25-28,54
X	US 3 334 106 A (BIEL JOHN H) 1 August 1967 (1967-08-01) the whole document -----	1-23, 25-28,54
X	REHSE K ET AL: "Platelet aggregation inhibiting and anticoagulant effects of oligoamines, 1: N-(4-piperidinyl)methanamines" ARCHIV DER PHARMAZIE, VCH VERLAGSGESELLSCHAFT MBH, WEINHEIM, DE, vol. 319, no. 319, 1986, pages 505-515, XP001085385 ISSN: 0365-6233 the whole document -----	1,25-28, 52-54, 59,60
X	STEVENTON ET AL: "4,4-disubstituted Piperidine High-Affinity NK1 Antagonists: Structure-Activity Relationships and in Vivo Activity" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, US, vol. 41, no. 23, 1998, pages 4623-4622, XP002173109 ISSN: 0022-2623 the whole document -----	1,25-28, 54

-/-

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/39644

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 248 018 A (OTTO EISLEB) 1 July 1941 (1941-07-01) column 1, line 52 - line 55; claim 6; examples 3,4 -----	1,25-28, 54
X	WO 98/25604 A (SPRINGER MARTIN S ; MACCOSS MALCOLM (US); MERCK & CO INC (US); MILLS S) 18 June 1998 (1998-06-18) page 30, line 26 - line 30 page 34, line 1 - line 22 page 55 - page 85; claim 1 -----	1,7-12, 20,25-61
X	DATABASE WPI Section Ch, Week 200335 Derwent Publications Ltd., London, GB; Class B02, AN 2003-367209 XP002283279 -& JP 2002 348288 A (ONO PHARM CO LTD) 4 December 2002 (2002-12-04) abstract -----	1,7-12, 20,25-61

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 03/39644

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  
**Although claims 42-53 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.**
2.  Claims Nos.: - because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
**see FURTHER INFORMATION sheet PCT/ISA/210**
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

**see additional sheet**

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

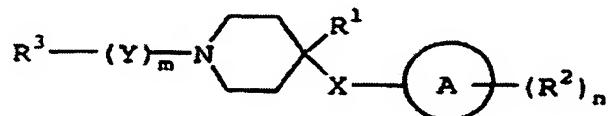
## INTERNATIONAL SEARCH REPORT

International application No.

CT/US 03/39644

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention relates to compounds of formula (I) or pharmaceutically acceptable derivatives thereof, useful in the treatment or prophylaxis of CCR5-related diseases and disorders, for example, in the inhibition of HIV replication, the prevention or treatment of an HIV infection, and in the treatment of the resulting acquired immune deficiency syndrome (AIDS).



(I)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 42-53 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

-----

Continuation of Box I.2

Claims Nos.: -

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claims may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claims is impossible. Consequently, the search has been restricted to compounds according to claim 3 for invention 1. For invention 2, a selection of novelty-destroying documents disclosing spiro fused CCR5 modulators have been cited.

In addition, the present claims do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The term "pharmaceutically acceptable derivative" does not enable the skilled person to determine which technical features are necessary to perform the stated function. It is thus unclear which specific compounds fall within the scope of said claim. A lack of clarity within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search does not include "pharmaceutically acceptable derivatives" of the compounds of formula I.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/39644

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9904794	A	04-02-1999	AU 8576098 A CA 2296314 A1 EP 1003514 A1 JP 2002510327 T WO 9904794 A1 US 6136827 A	16-02-1999 04-02-1999 31-05-2000 02-04-2002 04-02-1999 24-10-2000
WO 0038680	A	06-07-2000	AU 769449 B2 AU 1290400 A AU 763644 B2 AU 1675100 A BG 105709 A BG 105721 A BR 9905977 A BR 9916585 A BR 9917007 A CA 2292984 A1 CA 2350073 A1 CA 2350573 A1 CN 1331691 T CN 1331591 T CZ 20012297 A3 CZ 20012298 A3 EE 200100344 A EE 200100345 A EP 1013276 A1 EP 1140920 A1 EP 1140085 A1 HR 20010468 A1 HR 20010478 A1 HU 0104795 A2 HU 0104910 A2 WO 0039125 A1 WO 0038680 A1 ID 29031 A ID 28965 A JP 2000212159 A JP 2002533393 T JP 3522691 B2 JP 2002533461 T JP 2004099618 A NO 20013149 A NO 20013183 A NZ 511794 A NZ 511796 A PL 349091 A1 PL 349495 A1 SK 8752001 A3 SK 8762001 A3 TR 200101793 T2 TR 200101867 T2 TR 200200938 T2 US 6586430 B1 ZA 200104211 A	29-01-2004 31-07-2000 31-07-2003 31-07-2000 28-02-2002 28-02-2002 14-01-2003 16-10-2001 30-10-2001 23-06-2000 06-07-2000 06-07-2000 16-01-2002 16-01-2002 11-09-2002 11-09-2002 15-10-2002 16-12-2002 28-06-2000 10-10-2001 10-10-2001 28-02-2003 30-06-2002 29-04-2002 28-10-2002 06-07-2000 06-07-2000 26-07-2001 19-07-2001 02-08-2000 08-10-2002 26-04-2004 08-10-2002 02-04-2004 23-08-2001 08-08-2001 31-10-2003 28-11-2003 01-07-2002 29-07-2002 04-02-2003 04-02-2003 21-12-2001 21-11-2001 21-05-2002 01-07-2003 14-01-2002
WO 02079190	A	10-10-2002	WO 02079190 A1	10-10-2002
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/39644

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US 5340822	A 23-08-1994	FR AT AU AU BR CA CS DE DE DK EP ES FI FI FI GR HK HU IE IL IL JP JP KR MX NO NZ RU US US ZA	2676055 A1 181550 T 652046 B2 1591692 A 9201656 A 2067877 A1 9201329 A3 69229460 D1 69229460 T2 512901 T3 0512901 A1 2137176 T3 921951 A 951242 A 951243 A 3030755 T3 1005138 A1 61539 A2 921364 A1 101760 A 117921 A 3242980 B2 5186425 A 258373 B1 9202027 A1 921734 A , B, 242586 A 2083574 C1 5770735 A 5625060 A 9203178 A	06-11-1992 15-07-1999 11-08-1994 05-11-1992 15-12-1992 04-11-1992 18-11-1992 29-07-1999 20-01-2000 06-12-1999 11-11-1992 16-12-1999 04-11-1992 16-03-1995 16-03-1995 30-11-1999 12-05-2000 28-01-1993 04-11-1992 18-02-1997 18-02-1997 25-12-2001 27-07-1993 01-07-2000 01-01-1993 04-11-1992 26-10-1995 10-07-1997 23-06-1998 29-04-1997 27-01-1993
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US 3334106	A 01-08-1967		NONE	
US 2248018	A 01-07-1941		NONE	
WO 9825604	A 18-06-1998	AU WO US	5604998 A 9825604 A1 6013664 A	03-07-1998 18-06-1998 11-01-2000
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